Amendments to the Claims

Please cancel claims 2, 4 and 5, and amend claims 1, 3, 6-8, 12 and 13 as shown in the following listing of claims. This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (currently amended) Demodulator arranged to demodulate a first signal with the aid of a second signal, the demodulator comprising:

a first bandpass filter arranged to recover the first signal from a received signal; ~~and~~

a second bandpass filter arranged to recover the second signal from a received signal, the passband of the second bandpass filter being substantially narrower than the passband of the first bandpass filter; and

~~in which the passband of the second bandpass filter is substantially narrower than the passband of the first bandpass filter~~

compensation means for compensating phase error between the recovered first and second signals, the compensation means comprising a phase shifter that is arranged to shift a phase of the recovered first signal, the phase shift being dependent upon the phase difference between the recovered second signal and a reference signal, the compensation means further comprising a selector that is arranged to select the reference signal from at least two sources.

2. (canceled).

3. (currently amended) Demodulator according to claim 1 [[2]], wherein the compensation means comprises a delay element that is arranged to delay the recovered first signal.

4. (canceled).

5. (canceled).

1   6.   (currently amended) Demodulator according to claim 1 [[5]], wherein the
2   selector is a programmable selector.

1   7.   (currently amended) Demodulator according to claim 1 [[5]], wherein one
2   of the at least two sources is a demodulated first signal.

1   8.   (currently amended) Demodulator according to claim 1 [[5]], wherein one
2   of the at least two source is an image of a demodulated first signal which is stored
3   in memory means.

1   9.   (previously presented) Demodulator according to claim 8 wherein, the
2   memory means comprises an analogue to digital converter arranged to provide a
3   digital image of the demodulated first signal.

1   10.   (previously presented) Demodulator according to claim 1 wherein the
2   demodulator further comprises a phase locked loop for stabilizing the recovered
3   second signal.

1   11.   (previously presented) Demodulator according to claim 1 wherein the
2   recovered second signal is used for frequency down converting at least a third
3   signal.

1   12.   (currently amended) Apparatus comprising a demodulator, the
2   demodulator being arranged to demodulate a first signal with the aid of a second
3   signal, the demodulator comprising:
4   a first bandpass filter arranged to recover the first signal from a
5   received signal; and
6   a second bandpass filter arranged to recover the second signal from
7   the received signal, the passband of the second bandpass filter being substantially
8   narrower than the passband of the first bandpass filter; and
9   in which the passband of the second bandpass filter is substantially
10 narrower than the passband of the first bandpass filter

11   <u>compensation means for compensating phase error between the</u>

12 <u>recovered first and second signals, the compensation means comprising a phase</u>

13 <u>shifter that is arranged to shift a phase of the recovered first signal, the phase shift</u>

14 <u>being dependent upon the phase difference between the recovered second signal</u>

15 <u>and a reference signal, the compensation means further comprising a selector that</u>

16 <u>is arranged to select the reference signal from at least two sources.</u>

1   13.   (currently amended) Method for demodulating a first signal with the aid of

2 a second signal the method comprising the steps of:

3   using a first bandpass filter for recovering the first signal from a

4 received signal;

5   using a second bandpass filter having a substantially narrower

6 passband than the first bandpass filter, for recovering the second signal from the

7 received signal<u>; and</u>

8   <u>compensating phase error between the recovered first and second</u>

9 <u>signals, the compensating including shifting a phase of the recovered first signal,</u>

10 <u>the shifting being dependent upon the phase difference between the recovered</u>

11 <u>second signal and a reference signal, the compensating further including selecting</u>

12 <u>the reference signal from at least two sources.</u>

1   14.   (previously presented) Demodulator according to claim 1 further

2 comprising a mixer connected to the first and second bandpass filters to mix the

3 first signal and the second signal.